

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|---|------------------|---------|------------------|
| L2 | 53 | ((upper lower) or multiple) adj (buried adj2 (diffusion or strap or region or junction)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/01/12 08:56 |
| L3 | 33 | ((upper lower) or multiple) adj (buried adj2 (diffusion or strap or region or junction)) (capacit\$4) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/01/12 08:56 |
| L4 | 8 | ((upper lower) or multiple) adj (buried adj2 (diffusion or strap or region or junction)) (capacit\$4) (deep adj trench) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/01/12 09:20 |
| L5 | 569 | (438/259).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/01/12 09:20 |
| L6 | 1036 | buried adj strap | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/01/12 09:20 |
| L7 | 7 | I5 buried adj strap | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/01/12 09:29 |
| L10 | 210 | (365/131).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/01/12 09:33 |
| L11 | 48 | L10 capacit\$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/01/12 09:33 |

| | | | | | | |
|-----|--------|---|---|-----|----|------------------|
| L12 | 10 | L10 capacit\$4 vertical | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/01/12 09:40 |
| S1 | 1 | Gate adj controlled adj floating adj well | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/01/12 08:55 |
| S2 | 9 | ("20050190590" "20030116792" "20030155609" "5455801" "20030224573" "6269280" "20030082876" "6534824" "4713678").pn. | US-PGPUB; USPAT | OR | ON | 2005/11/21 09:52 |
| S3 | 116899 | DRAM | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/21 16:50 |
| S4 | 981 | deep adj trench adj capacitor | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/21 16:50 |
| S5 | 785 | S3 S4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/21 16:50 |
| S6 | 43 | vertical adj pass adj transistor | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/21 16:50 |
| S7 | 8 | S5 S6 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/21 16:52 |
| S8 | 8 | S5 S6 control | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/21 16:53 |

| | | | | | | |
|-----|------|---|---|-----|-----|------------------|
| S9 | 13 | second adj buried adj strap | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/21 17:34 |
| S10 | 1 | S9 S6 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/21 16:53 |
| S11 | 2585 | (365/149).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/21 17:35 |
| S12 | 192 | S11 (control adj gate) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/21 17:36 |
| S13 | 112 | S11 (control adj gate) (DRAM) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/21 17:36 |
| S14 | 98 | S11 (control adj gate) (DRAM) (source drain) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/21 17:36 |
| S15 | 90 | S11 (control adj gate) (DRAM) (source drain) (capacitor) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/21 17:36 |
| S16 | 2 | S11 (control adj gate) (DRAM) (source drain) (deep adj2 capacitor) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/21 17:37 |

| | | | | | | |
|-----|-----|--|---|-----|----|------------------|
| S17 | 16 | S11 (control adj gate) (DRAM) (source drain) (trench adj capacitor) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/21 17:58 |
| S18 | 123 | (trench adj capacitor) ((word or floating) adj gate) (control adj gate) DRAM | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/21 18:39 |
| S19 | 35 | (trench adj capacitor) ((word or floating) adj gate) (control adj gate) (vertical adj2 transistor) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/21 18:36 |
| S20 | 8 | (control adj cell) (trench adj capacitor) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/21 18:32 |
| S21 | 2 | "20050133860" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/21 18:32 |
| S22 | 2 | ("08/792952" or "08/787419").app. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/21 18:37 |
| S23 | 14 | (trench adj capacitor) ((word or floating) adj gate) (control adj gate) DRAM (buried adj strap) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/21 18:42 |
| S24 | 10 | (trench adj capacitor) ((word or floating) adj gate) (control adj gate) DRAM (buried adj strap) (threshold adj voltage) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/22 07:59 |

| | | | | | | |
|-----|-----|--|---|-----|----|------------------|
| S25 | 90 | "6072209" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/22 09:06 |
| S26 | 463 | (control adj cell) (storage adj cell) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/22 10:30 |
| S29 | 2 | (control adj cell) (storage adj cell) (trench adj5 capacitor) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/22 09:07 |
| S30 | 3 | (control adj cell) (storage adj cell) (vertical adj3 transistor) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/22 09:07 |
| S31 | 981 | (vertical adj3 transistor) (trench adj3 capacitor) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/22 10:34 |
| S32 | 873 | (vertical adj3 transistor) (trench adj3 capacitor) (DRAM) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/22 10:34 |
| S33 | 314 | (vertical adj3 transistor) (trench adj3 capacitor) (DRAM) (buried adj strap) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/22 10:34 |
| S34 | 86 | (vertical adj3 transistor) (trench adj3 capacitor) (DRAM) (buried adj strap) (threshold adj voltage) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/22 13:06 |

| | | | | | | |
|-----|-------|--|---|-----|----|------------------|
| S35 | 64471 | control adj3 transistor | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/22 13:06 |
| S36 | 1465 | (control adj3 transistor) (storage adj3 transistor) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/22 13:06 |
| S37 | 302 | (control adj3 transistor) (storage adj3 transistor) vertical | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/22 13:06 |
| S38 | 28 | (control adj3 transistor) (storage adj3 transistor) vertical (trench adj3 capacitor) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/22 13:47 |
| S44 | 514 | strap adj region | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/22 13:50 |
| S45 | 1151 | strap adj2 region | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/22 13:50 |
| S46 | 1922 | strap adj3 region | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/22 13:50 |
| S47 | 5202 | strap adj10 region | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/22 13:50 |

| | | | | | | |
|-----|------|---|---|-----|----|------------------|
| S48 | 5433 | strap adj11 region | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/22 13:50 |
| S49 | 5643 | strap adj12 region | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/22 13:50 |
| S50 | 6678 | strap adj92 region | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/22 13:50 |
| S51 | 6679 | strap adj93 region | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/22 13:50 |
| S52 | 0 | ((strap or diffusion) adj2 region adj99 (below or lower or higher) adj99 (strap or diffusion) adj2 region) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/22 13:51 |
| S53 | 724 | ((strap or diffusion) adj2 region) adj99 (below or lower or higher) adj99 ((strap or diffusion) adj2 region) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/22 13:51 |
| S54 | 514 | ((strap or diffusion) adj2 region) adj10 (below or lower or higher) adj10 ((strap or diffusion) adj2 region) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/22 13:51 |
| S55 | 493 | ((strap or diffusion) adj2 region) adj9 (below or lower or higher) adj9 ((strap or diffusion) adj2 region) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/22 13:51 |

| | | | | | | |
|-----|-----|---|---|-----|----|------------------|
| S56 | 450 | ((strap or diffusion) adj2 region) adj8 (below or lower or higher) adj8 ((strap or diffusion) adj2 region) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/22 13:51 |
| S57 | 381 | ((strap or diffusion) adj2 region) adj7 (below or lower or higher) adj7 ((strap or diffusion) adj2 region) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/22 13:52 |
| S58 | 293 | ((strap or diffusion) adj2 region) adj6 (below or lower or higher) adj6 ((strap or diffusion) adj2 region) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/22 13:52 |
| S59 | 229 | ((strap or diffusion) adj2 region) adj5 (below or lower or higher) adj5 ((strap or diffusion) adj2 region) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/22 13:52 |
| S60 | 173 | ((strap or diffusion) adj2 region) adj4 (below or lower or higher) adj4 ((strap or diffusion) adj2 region) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/22 13:52 |
| S61 | 103 | ((strap or diffusion) adj2 region) adj3 (below or lower or higher) adj3 ((strap or diffusion) adj2 region) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/22 14:01 |
| S62 | 4 | ("6426252" or "20020076880").pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/22 13:56 |
| S63 | 2 | ((strap or diffusion) adj2 region) adj3 (below or lower or higher) adj3 ((strap or diffusion) adj2 region) (trench adj2 capacitor) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/22 14:40 |

| | | | | | | |
|-----|-----|--|---|-----|----|------------------|
| S64 | 87 | (trench adj2 capacitor) (trench adj4 monocrystalline) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/22 15:05 |
| S65 | 4 | (trench adj2 capacitor) (trench adj3 filled adj4 monocrystalline) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/22 15:06 |
| S66 | 221 | 8f2 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/01/10 07:30 |
| S67 | 9 | 8f2 (control adj cell) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/01/10 07:31 |
| S68 | 629 | (buried adj2 (junction or strap)) (capacit\$4) (deep adj trench) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/01/10 10:08 |
| S69 | 383 | (buried adj2 (junction or strap)) ((deep adj trench) adj2 (capacit\$4)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/01/10 10:08 |
| S70 | 268 | (buried adj2 (junction or strap)) ((deep adj trench) adj2 (capacit\$4)) (vertical) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/01/10 13:25 |
| S71 | 9 | (buried adj2 (junction or strap)) ((deep adj trench) adj2 (capacit\$4)) (vertical adj pass adj transistor) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/01/10 10:09 |

| | | | | | | |
|-----|----|--|---|-----|----|------------------|
| S72 | 9 | (buried adj2 (junction or strap)) ((deep adj trench) adj2 (capacit\$4)) (vertical adj pass adj transistor) control storage | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/01/10 10:11 |
| S73 | 1 | ((first second) adj buried adj2 (junction or strap)) ((deep adj trench) adj2 (capacit\$4)) (vertical adj pass adj transistor) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/01/10 10:12 |
| S74 | 1 | ((first second) adj buried adj2 (junction or strap)) (deep adj trench) (capacit\$4) (vertical adj pass adj transistor) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/01/10 10:12 |
| S75 | 12 | ((first second) adj buried adj2 (junction or strap)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/01/10 10:13 |
| S76 | 11 | ((first second) adj buried adj2 (junction or strap)) (deep adj trench) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/01/10 15:59 |
| S77 | 1 | ((first second) adj buried adj2 (junction or strap)) (deep adj trench) control | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/01/10 10:16 |
| S78 | 3 | ((first second) adj buried adj2 (junction or strap)) (deep adj trench) control\$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/01/10 10:16 |
| S79 | 43 | vertical adj pass adj transistor | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/01/10 10:53 |

| | | | | | | |
|-----|-----|--|---|-----|-----|------------------|
| S80 | 20 | vertical adj pass adj transistor (threshold adj voltage) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/01/10 10:47 |
| S81 | 4 | "6946696" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/01/10 10:47 |
| S82 | 190 | ((storage control) adj node) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/01/10 10:53 |
| S83 | 81 | (buried adj2 (junction or strap)) ((deep adj trench) adj2 (capacit\$4)) (vertical) (threshold adj voltage) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/01/10 13:29 |
| S84 | 5 | ((first second) adj buried adj2 (junction or strap)) ((deep adj trench) adj2 (capacit\$4)) (vertical) (threshold adj voltage) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/01/10 13:33 |
| S85 | 14 | "6399447" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/01/10 13:36 |
| S86 | 4 | ("5670805" or "5360758").pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/01/10 14:49 |
| S87 | 81 | (257/220).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/01/10 15:00 |

| | | | | | | |
|----------|-----|---|---|-----|----|------------------|
| S88 | 14 | S87 (threshold adj voltage) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/01/10 15:02 |
| S91 | 12 | ((first second) adj buried adj2 (junction or strap)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/01/11 11:29 |
| S92 | 1 | ((first second) adj buried adj2 (junction or strap)) ((floating conduct\$4) adj region) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/01/10 16:01 |
| S96 | 3 | ((floating conduct\$4) adj region) (pinch-off or pinchoff or (pinch adj off)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/01/10 16:02 |
| S97 | 152 | (vertical adj2 transistor) (pinch-off or pinchoff or (pinch adj off)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/01/10 16:02 |
| S98 | 41 | (vertical adj2 transistor) (pinch-off or pinchoff or (pinch adj off)) (deep adj trench) (capacit\$4) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/01/11 11:29 |
| S99 | 25 | ((first second) adj2 buried adj2 (junction or strap)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/01/11 11:30 |
| S10 0 | 12 | ((first second) adj2 buried adj2 (junction or strap)) (((pass or access) adj2 transistor) or (pass adj2 gate)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/01/11 11:30 |

| | | | | | | |
|----------|----|---|---|-----|----|------------------|
| S10 1 | 12 | ((first second) adj2 buried adj2 (junction or strap)) (((pass or access) adj2 transistor) or (pass adj2 gate)) (deep adj2 trench) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/01/11 11:31 |
| S10 2 | 12 | ((first second) adj2 buried adj2 (junction or strap)) (((pass or access) adj2 transistor) or (pass adj2 gate)) (deep adj2 trench) (capacit\$4) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/01/11 11:34 |
| S10 3 | 8 | ((first second) adj2 buried adj2 (junction or strap)) (((pass or access) adj2 transistor) or (pass adj2 gate)) (deep adj2 trench) (capacit\$4) (vertical) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/01/11 11:34 |